PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference F174922		FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable item 5 below.						
International application No. PCT/IB04/00719		International filing date (day/month/year) 22 January 2004 (22.01.2004)		(Earliest) Priority Date (day/month/year)					
Applicant PETROLEO BRASILEIRO S.A PETROBRAS									
according	rnational search report consists	g transmitted to the International B	ureau.	thority and is transmitted to the applicant					
 Basis of the Report With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 									
b.	Authority (Rule 23.1(b)). With regard to any nucleotide	the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). Vith regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international earch was carried out on the basis of the sequence listing:							
filed together with the international application in computer readable form.									
	furnished subsequently to this Authority in written form.								
	furnished subsequently to this	m.							
	ot go beyond the disclosure in the								
	the statement that the information been furnished.	ation recorded in computer readable	form is ide	entical to the written sequence listing has					
2.	Certain claims were found u	unsearchable (See Box I).							
3. With	Unity of invention is lacking (See Box II). th regard to the title,								
\boxtimes	the text is approved as submit	ted by the applicant.							
	the text has been established b	by this Authority to read as follows:							
5. With regard to the abstract,									
	the text is approved as submitted by the applicant.								
	the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.								
6. The fi	The figure of the drawings to be published with the abstract is Figure No. 1								
\bowtie	as suggested by the applicant.			None of the figures					
	because the applicant failed to	suggest a figure.	•						
because this figure better characterizes the invention.									

Form PCT/ISA/210 (first sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB04/00719

CI	CCHEICATION OF CUIDIFOTE MARTINE		1 01/120 1/00/1			
A. CLA IPC(7)	ASSIFICATION OF SUBJECT MATTER : B08B 9/055					
US CL	: 15/104.061					
According t	o International Patent Classification (IPC) or to both	national	classification and IPC			
B. FIE	LDS SEARCHED					
Minimum d	ocumentation searched (classification system follower	d by class	sification symbols)			
U.S. :	15/104.061, 3.5, 3.51		•			
				•		
Documentat	ion searched other than minimum documentation to	he extent	that such documents are included	in the fields searched		
				the fields scarciled		
Electronic da	ata base consulted during the international search (na	me of da	ta base and where providents			
	· Committee of the comm	inic or dat	a base and, where practicable, se	arch terms used)		
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C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where	appropri	ate of the relevant pages as	I in it		
A	US 4,509,222 A (KNAPP) 09 April 1985, see ent			Relevant to claim No		
				1-12		
Α	US 5,384,929 A (SMITH) 31 January 1995, see e	ment.	1-12			
A	LIC 5 522 204 A GOVERNO OF THE 1995					
Α	US 5,533,224 A (KNAPP) 09 July 1996, see entir	1-12				
Α	US 6,014,789 A (KNAPP) 18 January 2000, see entire document.			1-12		
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Further	documents are listed in the continuation of Box C.		See patent family annex.			
	ecial categories of cited documents:		•			
	defining the general state of the art which is not considered to be	•	later document published after the inte- date and not in conflict with the applic	ation but cited to understand the		
of particula	ir relevance		principle of theory underlying the inve	ntion		
E" earlier appl	ication or patent published on or after the international filing date	"X"	document of particular relevance; the c	laimed invention cannot be		
			considered novel or cannot be consider when the document is taken alone	ed to involve an inventive step		
establish the	which may throw doubts on priority claim(s) or which is cited to be publication date of another citation or other special reason (as		document of particular relevance; the claimed invention cannot be			
specified)	•		considered to involve an inventive sten	when the document is		
o" document re	eferring to an oral disclosure, use, exhibition or other means		combined with one or more other such being obvious to a person skilled in the	act		
document p	ublished prior to the international filing date but later than the	- &-	document member of the same patent fa	ımilv		
priority date						
Date of the actual completion of the international search			Date of mailing of the international search report			
6 July 2004 (26.07.2004)			08 SEP 2004			
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Mail Stop PCT, Attn: ISA/US Commissioner for Patents			Chin /	111111 -		
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	ndria, Virginia 22313-1450 703)872-9306	i elepno	ne No. (571)272-1700			
	210 (second sheet) (July 1998)			<u> </u>		